

Input Set: I419788.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

1 <110> APPLICANT: FISCHER, Rainer
2 SCHILLBERG, Stefan
3 NAHRING, Jorg
4 SACK, Markus
5 MONECKE, Michael
6 LIAO, Yu-Cai
7 SPIEGEL, Holger
8 ZIMMERMAN, Sabine
9 EMANS, Neil
10 <120> TITLE OF INVENTION: Molecular Pathogenicide Mediated Plant Disease
11 Resistance
12 <130> FILE REFERENCE: 0147-0189P
13 <140> CURRENT APPLICATION NUMBER: US/09/419,788
14 <141> CURRENT FILING DATE: 1999-10-18
15 <150> EARLIER APPLICATION NUMBER: 98 11 9630.6 EP
16 <151> EARLIER FILING DATE: 1998-10-16
17 <150> EARLIER APPLICATION NUMBER: 66/BOM/1998 INDIA
18 <151> EARLIER FILING DATE: 1998-10-16
19 <160> NUMBER OF SEQ ID NOS: 163
20 <170> SOFTWARE: PatentIn Ver. 2.1
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TC 1600 MAIL ROOM

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/419,788DATE: 02/18/2000
TIME: 18:47:12

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163 gctgccactt attactgcca gcagtggagt agtaaccgcg tcacgttcgg tgctgggacc 360
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183 acctgcagtg ccagttcaag tgtaagtaaa atgcaatggg atcagcagaa gtcaggcacc 180
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193 tacgactggg ttgcttactg gggccagggg actctgggtc ctgtctctgc agtcgacgga 780
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207      acctgcagtg ccagttcaag tgtaagtaaa atgcaatggg atcagcagaa gtcaggcacc 180
208      tcccccaaaa gatggattta tgacacatcc aaactggcct ctggagtccc tggtcgcttc 240
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215      gagaagttca aaggcaaggc cacactgact tcagacaaat cctccaacac agcctacatg 660
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217      tacgactggg ttgcttactg gggccagggg actctgggtca ctgtctctgc agtcgacgga 780
218      ggtggagggt ctgcggccgc ttttgagtct aactcttcat ggtggaccaaa ttgggtgatc 840
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236      gtccagctgc agcagtctgg acctgagctg gtaaatcctg gggcttcagt gaagatgtcc 480
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VERIFICATION SUMMARY
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Line ? Error/Warning

Original Text

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PREVIOUSLY ERRORED SEQUENCES-EDITED

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14           35          40          45
15     Tyr Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Gly Arg Phe Ser Gly
16           50          55          60
17     Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu Ala
18           65          70          75          80
19     Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Leu
20           85          90          95
21     Thr Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys Gly Ser Thr Ser Gly
22           100         105         110
23     Ser Gly Lys Ser Ser Glu Gly Lys Gly Glu Val Gln Leu Gln Gln Ser
24           115         120         125
25     Gly Pro Glu Leu Val Asn Pro Gly Ala Ser Val Lys Met Ser Cys Lys
26           130         135         140
27     Ala Ser Gly Tyr Thr Phe Ile Thr Tyr Val Met His Trp Val Lys Gln
28           145         150         155         160
29     Lys Pro Gly Gln Gly Leu Glu Trp Ile Gly Tyr Ile Asn Pro Asn Lys
30           165         170         175
31     Asp Gly Thr Lys Phe Asn Glu Lys Phe Lys Gly Lys Ala Thr Leu Thr
32           180         185         190
33     Ser Asp Lys Ser Ser Asn Thr Ala Tyr Met Glu Leu Ser Ser Leu Thr
34           195         200         205
35     Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala Arg Asp Tyr Asp Tyr Asp
36           210         215         220
37     Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala Val
38           225         230         235         240
39     Asp Gly Gly Gly Ser Met Lys Arg Met Leu Ile Asn Ala Thr Gln Gln
40           245         250         255
41     Glu Glu Leu Arg Val Ala Leu Val Asp Gly Gln Arg Leu Tyr Asp Leu
42           260         265         270
43     Asp Ile Glu Ser Pro Gly His Glu Gln Lys Lys Ala Asn Ile Tyr Lys
44           275         280         285
45     Gly Lys Ile Thr Arg Ile Glu Pro Ser Leu Glu Ala Ala Phe Val Asp
46           290         295         300
47     Tyr Gly Ala Glu Arg His Gly Phe Leu Pro Leu Lys Glu Ile Ala Arg

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305

320

Glu Tyr Phe Pro Ala Asn Tyr Ser Ala His Gly Arg Pro Asn Ile Lys

325

330

335

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54			355					360					365			
55	Gly	Ser	Tyr	Leu	Val	Leu	Met	Pro	Asn	Asn	Pro	Arg	Ala	Gly	Gly	Ile
56		370					375					380				
57	Ser	Arg	Arg	Ile	Glu	Gly	Asp	Asp	Arg	Thr	Glu	Leu	Lys	Glu	Ala	Leu
58	385					390					395					400
59	Ala	Ser	Leu	Glu	Leu	Pro	Glu	Gly	Met	Gly	Leu	Ile	Val	Arg	Thr	Ala
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61	Gly	Val	Gly	Lys	Ser	Ala	Glu	Ala	Leu	Gln	Trp	Asp	Leu	Ser	Phe	Arg
62				420					425				430			
63	Leu	Lys	His	Trp	Glu	Ala	Ile	Lys	Lys	Ala	Ala	Glu	Ser	Arg	Pro	Ala
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66		450					455					460				
67	Asp	Tyr	Leu	Arg	Gln	Asp	Ile	Gly	Glu	Ile	Leu	Ile	Asp	Asn	Pro	Lys
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69	Val	Leu	Glu	Leu	Ala	Arg	Gln	His	Ile	Ala	Ala	Leu	Gly	Arg	Pro	Asp
70				485						490						495
71	Phe	Ser	Ser	Lys	Ile	Lys	Leu	Tyr	Thr	Gly	Glu	Ile	Pro	Leu	Phe	Ser
72				500					505				510			
73	His	Tyr	Gln	Ile	Glu	Ser	Gln	Ile	Glu	Ser	Ala	Phe	Gln	Arg	Glu	Val
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76		530					535					540				
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81	Arg	Gln	Leu	Arg	Leu	Arg	Asp	Leu	Gly	Gly	Leu	Ile	Val	Ile	Asp	Phe
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84		595						600					605			
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86		610					615					620				
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89	Leu	Gly	Glu	Ser	Ser	His	His	Val	Cys	Pro	Arg	Cys	Ser	Gly	Thr	Gly
90				645						650						655
91	Thr	Val	Arg	Asp	Asn	Glu	Ser	Leu	Ser	Leu	Ser	Ile	Leu	Arg	Leu	Ile
92				660						665						670
93	Glu	Glu	Glu	Ala	Leu	Lys	Glu	Asn	Thr	Gln	Glu	Val	His	Ala	Ile	Val
94		675						680					685			
95	Pro	Val	Pro	Ile	Ala	Ser	Tyr	Leu	Leu	Asn	Glu	Lys	Arg	Ser	Ala	Val
96		690					695					700				
97	Asn	Ala	Ile	Glu	Thr	Arg	Gln	Asp	Gly	Val	Arg	Cys	Val	Ile	Val	Pro
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103  Glu Ala Met Ala Leu Pro Ser Glu Glu Glu Phe Ala Glu Arg Lys Arg
104              755              760              765
105  Pro Glu Gln Pro Ala Leu Ala Thr Phe Ala Met Pro Asp Val Pro Pro
106              770              775              780
107  Ala Pro Thr Pro Ala Glu Pro Ala Ala Pro Val Val Ala Pro Ala Pro
108  785              790              795              800
109  Lys Ala Ala Pro Ala Thr Pro Ala Ala Pro Ala Gln Pro Gly Leu Leu
110              805              810              815
111  Ser Arg Phe Phe Gly Ala Leu Lys Ala Leu Phe Ser Gly Gly Glu Glu
112              820              825              830
113  Thr Lys Pro Thr Glu Gln Pro Ala Pro Lys Ala Glu Ala Lys Pro Glu
114              835              840              845
115  Arg Gln Gln Asp Arg Arg Lys Pro Arg Gln Asn Asn Arg Arg Asp Arg
116              850              855              860
117  Asn Glu Arg Arg Asp Thr Arg Ser Glu Arg Thr Glu Gly Ser Asp Asn
118  865              870              875              880
119  Arg Glu Glu Asn Arg Arg Asn Arg Arg Gln Ala Gln Gln Gln Thr Ala
120              885              890              895
121  Glu Thr Arg Glu Ser Arg Gln Gln Ala Glu Val Thr Glu Lys Ala Arg
122              900              905              910
123  Thr Ala Asp Glu Gln Gln Ala Pro Arg Arg Glu Arg Ser Arg Arg Arg
124              915              920              925
125  Asn Asp Asp Lys Arg Gln Ala Gln Gln Glu Ala Lys Ala Leu Asn Val
126              930              935              940
127  Glu Glu Gln Ser Val Gln Glu Thr Glu Gln Glu Glu Arg Val Arg Pro
128  945              950              955              960
129  Val Gln Pro Arg Arg Lys Gln Arg Gln Leu Asn Gln Lys Val Arg Tyr
130              965              970              975
131  Glu Gln Ser Val Ala Glu Glu Ala Val Val Ala Pro Val Val Glu Glu
132              980              985              990
133  Thr Val Ala Ala Glu Pro Ile Val Gln Glu Ala Pro Ala Pro Arg Thr
134              995              1000              1005
135  Glu Leu Val Lys Val Pro Leu Pro Val Val Ala Gln Thr Ala Pro Glu
136  1010              1015              1020
137  Gln Gln Glu Glu Asn Asn Ala Asp Asn Arg Asp Asn Gly Gly Met Pro
138  1025              1030              1035              1040
139  Ser Phe Ser Pro Leu Ala Ser Ser Pro Ala Arg Lys Trp Ser Ala Ser
140              1045              1050              1055
141  Ser Ser Leu Ser
142              1060

```

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143  <210> 21
144  <211> 72
145  <212> DNA
146  <213> Artificial Sequence
147  <220>
148  <223> Description of Artificial Sequence: synthetic, no
149        natural origin
150  <400> 21

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PAGE: 4

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/419,788

DATE: 02/18/2000
TIME: 18:47:12

Input Set: I419788.RAW

151	ccgtcagacg tcagaacctc cacctccact tccgccgcct ccagttgcag gaccagaggt	60
152	ccaaacaaaa cc	72